Memo

Quality Control

DQA: Date	e:
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NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

									QA Closed:	Dat	te:
Work Orde	÷.				DISPOSITION			AGAINST DE	PARTMENT	/PROCESS	
Part No					Rework Scrap	⊣ I	Skid-tube Machining	Crosstube Small Fab	1	Water Jet d. Eng. Coor.	Quality
NCR N	o				Use-as-is Work Order Update	Therr	noforming Large Fab	Finishing Composite	Rec/Sto	re/Packaging Supplier	
Root				Descri	ption of work order update	Initial	Act	tion	Sign &		
Cause	Date	Step	Qty		or Non-conformance	Chief Eng	Desc	ription ·	Date	Verification	n QC Inspector
Doc/Data											
Equip/Tooling											
Operator											
Material		·									
Setup											
Other											
Process											
Supplier		i .							i		
Training											
Unapproved											
					F.	AULT CATE	GORY				
Landin	g Gear				General				_		
	Bending				Bend	Grain			Ovalized		Pressure/Forced
	Centre No	ot Concer	ntric to (o/s	BOM/Route	Hardwa	are.		Over/Under	tolerance	Temperature/Cure
	Cracks				Broken/Damaged	Inspect	ion Incomplete		Part Incorred	ct	Weld
	Crushed/	Crimped			Burrs	Instruc	tions Incomplete/I	Unclear	Part Lost/Mi	issing	Wrong Stock Pulled
	Cuffs				Contamination	Mainte	enance		Part Moved		
	Heat Trea	t			Countersink	Mislabe	eled		Positioned V	Vrong	
	Inspection	n Strip in	Tube		Cut Too Short	Misrea	d		Power Loss/	Surge	Other
	Ripples in	Bend			Drill Holes	Offset					
	Torque W	aves in E	xtrusion	n [Drawing	Out of	Calibration				,
	Turning S	equence			Finish	Out of	Sequence				
Γ	TWave/Tw	ist in Tuk			Folio	Outside	Dimensions				-

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Work Orde		8288		*1	08288	3*							Page	2
Item ID: Revision ID: Item Name:	D4095-045 Wearplate Ass	embly		Accept	*N	900	040	100)*	Setup	Start Stop	ı V.	S1* S2*	-
Start Date: Required Date: Reference:	10/11/13	Start Qty: 12.00 Req'd Qty: 12.00	*12* *12*			st Item stomer:	ID:			_	C 1		. 17	:
Approvals:		n:		Tooling: SPC (Y/N)): 		ate:			Run	Start Stop	" \	R1* R2*	
Sequence ID/ Work Center II 130 *120* Brake NC Brake NC	D		ke as per Dwg D3564 usin Dwg D3564 on brake usin		ours	ool ID	Tool#	Plan Code	Accep Qty	t Rej Qty		Reject Number	Insp. Stamp	SA 13 lu
*140 *140* QC Quality Control		QC5- Inspect part comple	teness to step on W/O	0.00	Smb 31016				16					· · · · · · · · · · · · · · · · · · ·
*150 *150* HandFinish Hand Finishing		DWG	RE TOP (CONCAVE) SU GUARD BATCH: 126		ROCKGUARD AS I	PER			16		Ø	_ \$	13-10.	-17

									DQA:	Date:	
NCR: Y	es / No				WORK ORDER NON-C	ONFOR	MANCE / UP	PDATE	QA Closed:	Date:	
Work Orde	r:			,	DISPOSITION			AGAINST DE	PARTMENT	/PROCESS	
Part N	0.				Rework Scrap Use-as-is	Thor	Skid-tube Machining moforming	Crosstube Small Fab Finishing	-1	Water Jet d. Eng. Coor. re/Packaging	Engineering Quality Other
NCR N	lo				Work Order Update	Iner	Large Fab	Composite	Rec/sto	Supplier	Other
Root				Descri	ption of work order update	Initial	Ac	ction	Sign &		
Cause	Date	Step	Qty	(or Non-conformance	Chief Eng	g Desc	cription	Date	Verification	QC Inspector
Doc/Data									· '		
Equip/Tooling							ANA		1	Ì	
Operator									1		1.5
Material									· ·		
Setup				•				**			
Other	_										
Process		ł									
Supplier		•									
Training						İ		Asset in the second of the sec		ئو	
Unapproved						<u> </u>			1	<u> </u>	
						AULT CAT	EGORY		*		
Landir [ng Gear				General				Ovalized		Pressure/Forced
	Bending			, <u> </u>	Bend BOM/Route	Grain		 	4	talaransa	Temperature/Cure
}	—	Not Conce	ntric to (^{)/5} -	BOM/Route	Hardw			Over/Under		Weld
-	Cracks	1/6: 1			Broken/Damaged	—	tion Incomplete	// to also a	Part Incorre	<u> </u>	4
-	 	/Crimped		<u> </u>	Burrs		ctions Incomplete/	Onclear	Part Lost/M	issing	Wrong Stock Pulled
}	Cuffs	•		<u> </u>	Contamination	\vdash	enance	<u> </u>	Part Moved	Mrana	
	Heat Tr		- 1	<u> </u>	Countersink	Mislab		·	Positioned V		امياه
	Inspecti	on Strip in	Tube	- 1	Cut Too Short	Misrea	ad		Power Loss/	Surge	Other

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Torque Waves in Extrusion

Drill Holes

Drawing

Finish

Folio

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Work Orde		98288		*108	3288*							Page 3
Item ID: Revision ID: Item Name:	D4095-045 Wearplate As	sembly		Accept	*N900	040	100)* ፡	Setup	Start Stop	1 71 .	S1*
Start Date: Required Date: Reference:	10/11/13 10/25/13	Start Qty: 12.00 Req'd Qty: 12.00	*12* *12*		Cust Item 1 Customer:	ID:						
Approvals:		an:	Date:	- 6 -		ate:		I	Run	Start Stop		R1* R2*
Sequence ID/ Work Center II 160 *160* QC Quality Control 170 *170* Packaging	D	Operation Description QC3- Inspect Part Finish Memo	ck Location: FP·OC	_	Tool ID	Tool #	Code	Accept Qty 16				Insp. Stamp Mad 13-10
Packaging 180 *180* QC Quality Control		Memo QC21- Final Inspection - Memo	Work Order Release	0.00				4		? ?m		0/18·

DI 13-10-11

											DQA:	Dat	.e:	* * * * * * * * * * * * * * * * * * *
NCR:	Yes ,	/ No				WORK ORDER NON-C		IFOR	MANCE / UP	DATE				*
											QA Closed	: Dat	:e:	
Work Orde	oř.					DISPOSITION		•		AGAINST D	PARTMENT	PROCESS		••
Part N	_			-		Rework Scrap			Skid-tube Machining	Crosstube Small Fab	-1	Water Jet		Engineering Quality
NCR N	No		•			Use-as-is Work Order Update		Thern	noforming Large Fab	Finishing Composite	Rec/Sto	re/Packaging Supplier	_	Other
Root					Descri	ption of work order update	- 1	nitial	· Ac	tion	Sign &		\exists	
Cause		Date	Step	Qty	(or Non-conformance	Ch	ief Eng	Desc	ription	Date	Verification	1	QC Inspector
Doc/Data														
Equip/Tooling											1			* . •
Operator	Ш													
Material														
Setup														
Other														
Process							1							
Supplier														
Training													ı	
Unapproved	П		1											
						F	AUL	T CATE	GORY					
<u>Landi</u>	ng Ge	ear	•			General					_	_		
	В	ending		·		Bend		Grain			Ovalized			Pressure/Forced
	\Box c	entre No	ot Concer	ntric to	o/s	BOM/Route		Hardwa	ire		Over/Under	tolerance		Temperature/Cure

Maintenance

Out of Calibration

Out of Sequence

Outside Dimensions

Mislabeled

Misread

Offset

Inspection Incomplete

Instructions Incomplete/Unclear

Part Incorrect

Part Moved

Part Lost/Missing

Positioned Wrong

Power Loss/Surge

Weld

Other

Wrong Stock Pulled

Broken/Damaged

Contamination

Countersink

Cut Too Short

Drill Holes

Drawing

Finish

Folio

Burrs

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Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Cracks

Cuffs

Crushed/Crimped

Inspection Strip in Tube

Torque Waves in Extrusion

Heat Treat

Picklist Print

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Page 1

Work Order ID: 108288

108288

Parent Item:

D4095-045

D4095-045

Parent Item Name: Wearplate Assembly

Start Date: 10/11/13

Required Date: 10/25/13

Start Qty: 12.00

Required Qty: 12.00

Comments:

IPP REV:A 11.10.12 NEW ISSUE DD VERF:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	_	Primary Location	Last- Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M304S16GA		Purchased	No			100	sf	510.3940	1.03	(14)			
M304S16	GA								**			PH	m3-10-

304/316 Sheet .063

Location	Loc Qty	Loc Code
MAT020	510.3939998	
123136	140.2	
M126159	31.5	
M126915	338.694	

	DQA:	Date:	
IPDATE			

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

											QA Closed:	Dat	te:
Work Orde)r·					DISPOSITION				AGAINST D	EPARTMENT	/PROCESS	
WOIK OIGE						Rework			Skid-tube	Crosstube		Water Jet	Engineering
Part N	lo					Scrap			Machining	Small Fab	→	d. Eng. Coor.	Quality
						Use-as-is			noforming	Finishing	Rec/Sto	re/Packaging	Other
NCR N	10					Work Order Update			Large Fab	Composite		Supplier	
Root					Descri	ption of work order update	!	nitial		tion	Sign &		
Cause		ate	Step	Qty	(or Non-conformance	Ch	ief Eng	Desc	ription	Date	Verification	n QC Inspector
Doc/Data	_												
Equip/Tooling													
Operator													
Material													
Setup													
Other											1		
Process												.	
Supplier							ĺ						
Training													
Unapproved													
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Landiı	ng Gea	r				General				_		_	
	Bei	nding				Bend		Grain			Ovalized		Pressure/Forced
	Cei	ntre No	t Concer	ntric to	o/s	BOM/Route	П	Hardwa	re		Over/Under	tolerance	Temperature/Cure
	Cra	icks				Broken/Damaged	П	Inspecti	on Incomplete		Part Incorred	ct	Weld
	Cru	ished/C	rimped			Burrs		Instruct	ions Incomplete/	Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled
	Cut	ffs				Contamination		Mainte	enance		Part Moved	•	·
	He	at Treat	t			Countersink	П	Mislabe	eled		Positioned V	Vrong	
	Ins	pection	Strip in	Tube		Cut Too Short	П	Misread	i		Power Loss/	Surge	Other
	-	ples in				Drill Holes	П	Offset		_	_	•	
	— 1	•	aves in E	xtrusio	n	Drawing	П	Out of (Calibration				,
	_	-	equence			Finish		Out of S	Sequence		· · · · · · · · · · · · · · · · · · ·		
	_		ist in Tub			Folio	П	Outside	Dimensions				

DART AEROSPACE LTD	Work Order:	108288
Description: Wearplate	Part Number:	D4095-5
Inspection Dwg: D4095 Rev: B		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Ø0.188	+0.005/-0.001	0.1905	-		V	Jemos
0.300	+/-0.010	0.304"			V	
0.300	+/-0.010	0.303			V	
2.432	+/-0.010	2.439	_		U	
3.227	+/-0.010	3.233			V	
2.50	+/-0.030	2509"	•		V	
6.75	+/-0.030	G-755°	_		V	
10.00	+/-0.030	10.006	_		V	Produser
20.00	+/-0.030	20.00	-		て	Janob
30.00	+/-0.030	30.00"	_		丁	
38.500	+/-0.010	38.50	_		丁	
5.500	+/-0.010	5.504	_		V	
43.50	+/-0.030	43.50	-		7	
0.063	+/-0.010	0.062"			V	
			DAS			

		27		
Measured by: Jm	Audited by:	9-89	Preliminary Approval:	
Date: 13-10-13	Date:	13/0/5	Date:	

Rev	Date	Change		Revised by	Approved
Α	11.11.08	New Issue	P/O D4095-045	KJ CKY	
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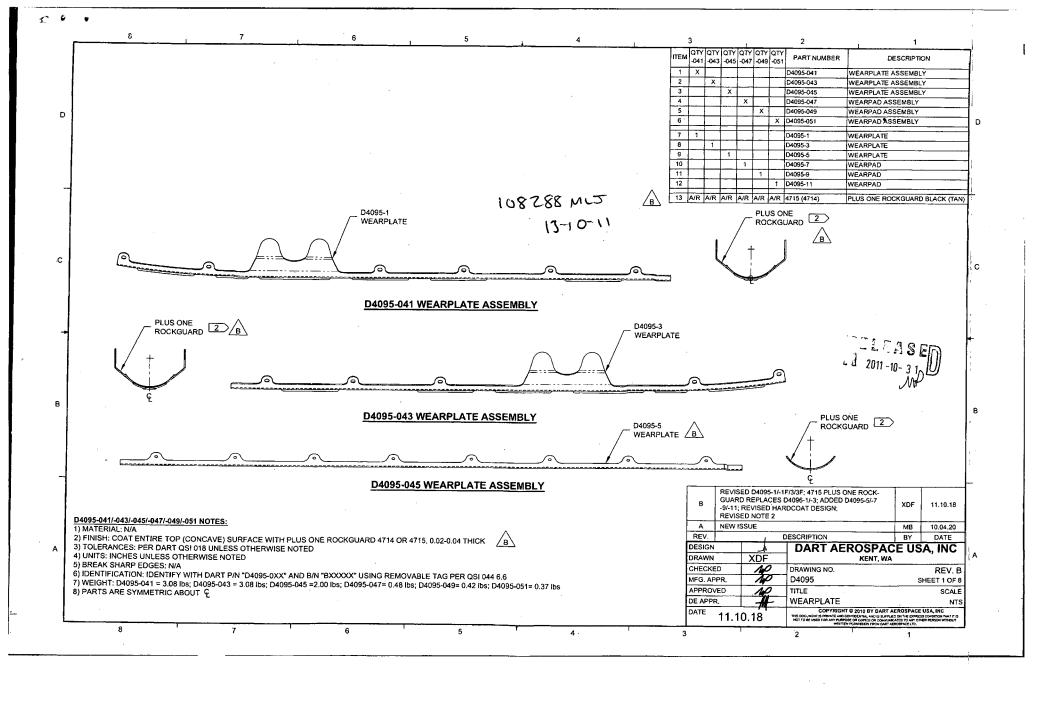
DQA:	Date:

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

									QA Closed:	Date	2:		
Work Order: DISPOSITION							AGAINST DEPARTMENT/PROCESS						
Part No					Rework Scrap Use-as-is Work Order Update	-} I	Skid-tube Machining moforming Large Fab	Crosstube Small Fab Finishing Composite	Pro Rec/Sto	Engineering Quality Other			
Root				Descri	ption of work order update	Initial	A	ction	Sign &				
Cause	Date	Step	Qty		or Non-conformance	Chief Eng	Des	cription	Date	Verification	QC Inspector		
Ooc/Data Equip/Tooling Operator Material Setup Other Process Supplier Fraining Unapproved													
Jiiappioved		!	I		F	AULT CATE	GORY		<u> </u>	i .	<u> </u>		
Landin	g Gear				General								
	Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend Torque Waves in Extrusion Turning Sequence Wave/Twist in Tube				Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes Drawing Finish	Inspect Instruct Mainte Mislabe Misreae Offset Out of	Hardware Inspection Incomplete Instructions Incomplete/Unclear Maintenance Mislabeled Misread Offset Out of Calibration Out of Sequence		Ovalized Over/Under Part Incorred Part Lost/Mi Part Moved Positioned V Power Loss/	ct sissing Vrong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other		
	Wave/Tw	ist in Tub	oe -		Folio	Outside	Dimensions						

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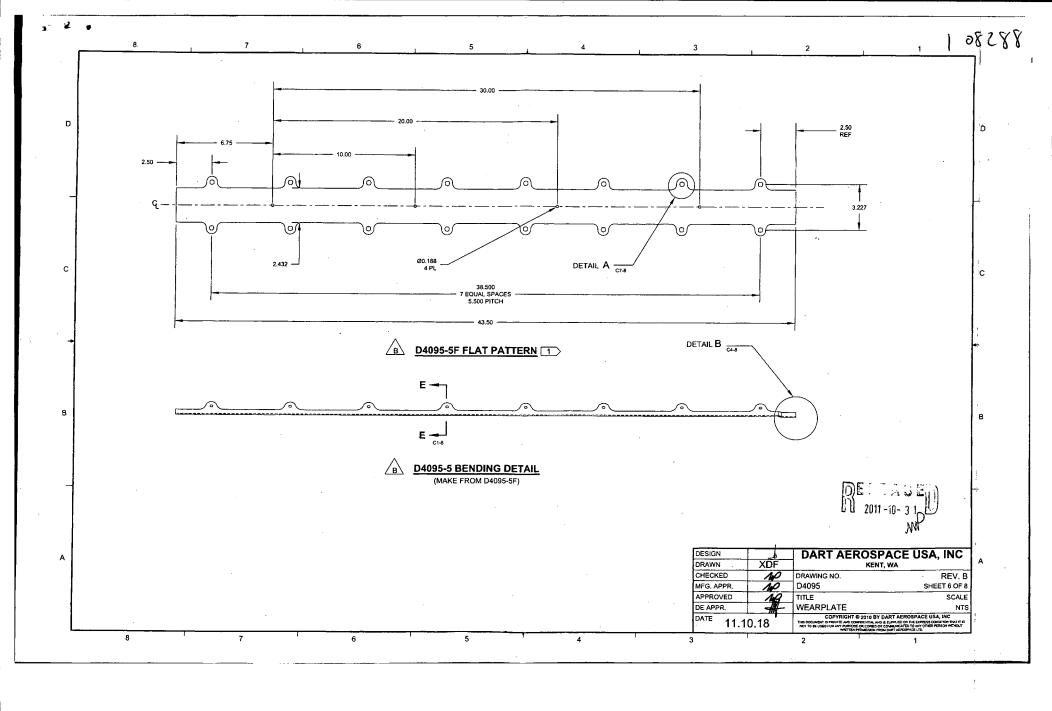


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DQA:

Date:

NCR: Yes / No WORK ORDER NON-CONFORMANCE / UPDATE													
		•		.=.							QA Closed:	Date	e:
Work Orde	er:					DISPOSITION				AGAINST DE	PARTMENT,	_	
Part N	lo.			<u>-</u>		Rework Scrap		ſ	Skid-tube Machining	Crosstube Small Fab	4	Water Jet d. Eng. Coor.	Engineering Quality
NCR N	lo.				····	Use-as-is Work Order Update]		Large Fab	Finishing Composite	Rec/Stor	e/Packaging Supplier	Other
Root					Descri	ption of work order update	In	nitial	Act	ion	Sign &		
Cause		Date	Step	Qty	(or Non-conformance	Chi	ef Eng	Descr	iption	Date	Verification	QC Inspector
oc/Data													
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etup													
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Landir	ng G	ear				General					_		
		Bending				Bend		Grain			Ovalized		Pressure/Forced
		Centre No	tre Not Concentric to O/S BOM/Route				Hardwa	re		Over/Under	tolerance	Temperature/Cure	
		Cracks				Broken/Damaged		Inspecti	on Incomplete		Part Incorred	t [Weld
		Crushed/Crimped Burrs				Instruct	ions Incomplete/L	Inclear	Part Lost/Mi	ssing	Wrong Stock Pulled		
		Cuffs				Contamination		Mainte	nance		Part Moved	_	
		Heat Trea	Heat Treat Countersink				П	Mislabe	led		Positioned V	/rong	
		Inspection Strip in Tube Cut Too Short					Misread	I		Power Loss/	Surge [Other	
		Ripples in				Drill Holes	\square	Offset		<u> </u>	-	_	
		Torque W		xtrusior	1	Drawing	П	Out of C	Calibration				
		Turning Se				Finish	П	Out of S	Sequence			-	
		Wave/Twist in Tube Folio					П	Outside Dimensions					

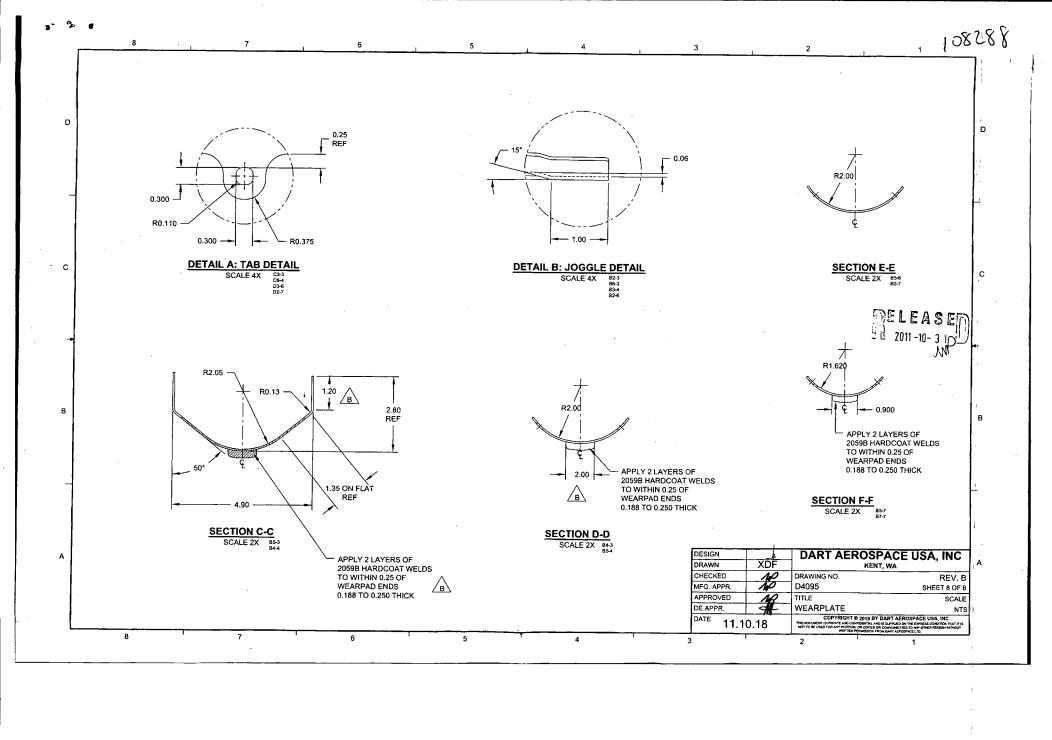


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DQA:	Date:	
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											QA Closed:	Da	te:	
Work Order:						DISPOSITION		AGAINST DEPARTMENT/PROCESS						
Part No					Rework Scrap Use-as-is Work Order Update		Skid-tube Crosstul Machining Small Fa Thermoforming Finishin Large Fab Composi			Prod. Eng. Coor. Rec/Store/Packaging			Engineering Quality Other	
Root					Descri	ption of work order update	Ī	nitial	Ac	tion	Sign &			
Cause	D	ate	Step	Qty	i	or Non-conformance	Ch	ief Eng	Desc	ription	Date	Verificatio	n	QC Inspector
Doc/Data		1	· · · · · · · · · · · · · · · · · · ·	<u>-</u>		-								
Equip/Tooling							Ì							
Operator		İ												
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:	\vdash	ding				Bend	\vdash	Grain			Ovalized		\vdash	Pressure/Forced
	_		t Concer	ntric to	O/S -	BOM/Route	\vdash	Hardwa		<u> </u>	Over/Under			Temperature/Cure Weld
	<u> </u>	Cracks			-	Broken/Damaged	\blacksquare		on incomplete	LImploor -	Part Incorred		-	Wrong Stock Pulled
	⊢	Crushed/Crimped Burrs				\vdash	Mainte	ions Incomplete/	Unclear	Part Lost/Mi Part Moved	SSing	Ш	wrong Stock Pulled	
	$oldsymbol{oldsymbol{ o}}$	Cuffs Countamination				Countersink	\vdash	Mislabe		<u> </u>	Positioned V	Vrong		
	\vdash	Heat Treat			-	Cut Too Short	\vdash			-	Power Loss/	-		Other
		 ' 			Drill Holes	\vdash	Misread Offset	ı	L	Trower ross/	Juige	لــا	Otilei	
	─ `	•	aves in E	vtrucio	<u>,</u>	Drawing	\vdash		Calibration				—	
	 i	•	equence		'' 	Finish	\vdash		equence					
	${f H}$	-			H		_		•				—	<u> </u>
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									DQA:	Date	:
NCR: Y	es / No	•			WORK ORDER NON-C	CONFOR	04.61	Data			
					<u> </u>				QA Closed:	Date	:
Work Orde	or.				DISPOSITION			AGAINST DE	PARTMENT	/PROCESS	
Part N					Rework Scrap	Thor	Skid-tube Crosstube Machining Small Fab			Water Jet d. Eng. Coor.	Engineering Quality Other
NCR N	lo				Use-as-is Work Order Update	Ther	moforming Large Fab	Finishing Composite	, Rec/sto	re/Packaging Supplier	
Root				Descri	ption of work order update	Initial	Ac	tion	Sign &		
Cause	Date	Step	Qty	(or Non-conformance	Chief En	Desc.	ription	Date	Verification	QC Inspector
Doc/Data											
Equip/Tooling											
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Material											
Setup											
Other											
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Landir	ng Gear				General				_		_
	Bendin	g			Bend	Grain			Ovalized		Pressure/Forced
,	Centre	Not Conce	ntric to	o/s	BOM/Route	Hardw	are		Over/Under	tolerance	Temperature/Cure
,	Cracks				Broken/Damaged	Inspec	tion Incomplete		Part Incorre	ct	Weld
	Crushe	d/Crimped			Burrs	Instru	ctions Incomplete/	'Unclear	Part Lost/Mi	issing	Wrong Stock Pulled
Ì	Cuffs				Contamination	Maint	enance		Part Moved		_
	Heat T	eat			Countersink	Mislab	eled		Positioned V	Vrong	
	Inspect	ion Strip ir	1 Tube		Cut Too Short	Misrea	nd		Power Loss/	Surge	Other
	Ripples	in Bend			Drill Holes	Offset	Offset			_	

Out of Calibration
Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

Folio

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